Ham-Digital Digest   Mon, 29 Nov 93   Volume 93 : Issue 127

Today's Topics:
                    ??using ur Kantronics KPC-3 for WX??
                         ATM on Amateur Radio?
                              MFJ1270B
                        Packet antenna?????
              Portable Packet Station with a HP 95LX ???
                              USA and NA
            W3IWI paper #4: Concerning continent designators

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 22 Nov 1993 18:06:54 GMT
From: dog.ee.lbl.gov!agate!news.ucdavis.edu!rosie.ucdavis.edu!
szhall@network.ucsd.edu
Subject: ??using ur Kantronics KPC-3 for WX??
To: ham-digital@ucsd.edu

I just bought a KPC-3 for packet radio and I really enjoy it. Does anyone
out there us it for WX and if so I have some some questions. Does it
work well and do you need a good ant..What kind of software are you using?
 I don't have any idea what to exspect I don't have any friends who use
their KPC-3 for WX. thanks for reading this..73es..Jeff

Date: 28 Nov 93 18:01:00 GMT
From: news-mail-gateway@ucsd.edu

Subject: ATM on Amateur Radio?
To: ham-digital@ucsd.edu

After reading Gigabit Networking by Craig Partridge, which
includes ATM as one of the topics in high speed networking, I'm
not convinced that ATM is even a good idea for fiber links.

ATM breaks packets up into cells, the idea being that an time
critical (voice or video) packet can't affort to be held back
because a long (4k bytes?) packet is being sent. So all packets
are broken into cells, which can then be sent as needed (critical
ones first).

Well, it appears that this solves the problem. Only on a 1Gbit
link a 4K byte packets is only 32 microseconds long so the
problem doesn't really exist for this speed link!

Also my understanding is that currently all you can get today on
ATM is a permanent virtual circuit, no "dial up". It appears
that switched service is years away. And it's not clear how
(if?) ATM will handle multicast traffic.

Remember, ATM is brought to you by the same people who designed
ISDN as the answer to local telephone service. Will it follow
the same installation / availability / cost path?

If someone created some standard for bits on a fiber (speed,
coding 8/10?, CRC), then PPP could be run on that. And IP on
top. So it's only a hardware/standard problem and we could have
1G+ fiber links today... Doesn't this bypass all the ATM
problems?

What does this have to do with Amateur Radio? Well, I've been
thinking about all the claims that there isn't enough spectrum to
do Gigabit networking via RF. Really? What about local and line
of sight links in the 24Ghz to 100Ghz range? Sounds hard (a
challange) today, but doesn't sounds like it will remain so...

Date: 29 Nov 93 05:47:07 GMT
From: ogicse!emory!news-feed-1.peachnet.edu!gatech!mailer.acns.fsu.edu!exchange!
doug.ferrell@network.ucsd.edu
Subject: MFJ1270B
To: ham-digital@ucsd.edu

Date: Thu, 25 Nov 1993 21:42:00 GMT
From: munnari.oz.au!spool.mu.edu!howland.reston.ans.net!math.ohio-state.edu!
news2.uunet.ca!uunet.ca!lhaven.UUmh.Ab.Ca!combdyn!lawrence@network.ucsd.edu
Subject: Packet antenna?????
To: ham-digital@ucsd.edu

In article <CGFn2q.9DH@freenet.carleton.ca> aa963@Freenet.carleton.ca (Lloyd Carr)
writes:
>
>In a previous article, fsrla@aurora.alaska.edu () says:
>
>>What would a good 2m packet antenna
>>be??? I'm not using packet right
>>now, but hope to soon. However,
>>all I have up right now is a
>>2 element quad. Is this to weak?
>>What should I try??????
>>Thanks for the help!!!!!!!
>
>Anything will work. I use a Ringo Ranger vertical. If you're
>quite a distance away from your main feed, you could use
>a yagi.

I've had people say not to use directive antennas for packet, because it
causes HTS.

Of course the current Packet BBS uses a copper J-pole....which from my old
antenna position couldn't be heard....but we could both hear the NODE. Sure
was interesting when both our systems got busy. Fortunately or unfortunately
he could hear me, while I couldn't hear him. Not as bad as a node that
everybody can hear, but it couldn't hear anybody.

I'm using a copper J-pole right now....need to move it up 2 feet so the
metal flashing in the roof makes less of an effect on the SWR.

Another guy I know uses a 12 element 2m yagi.

Our node used to use a 5 element 2m yagi....now its using a 210C4 clone (four
bay omni).

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  --EMAIL----------------------------PHONE-----------FAX------------

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 | WORK: lawrence@combdyn.com      | (403)529-2162 | (403)529-2516 | CallSign
 | HOME: dreamer@lhaven.uumh.ab.ca | (403)526-6019 | (403)529-5102 |  VE6LKC
 ------------------------------------------------------------------
  disclamer = (working_for && !representing) + (Combustion Dynamics Ltd.);
```

Date: Sat, 27 Nov 1993 06:44:35 GMT
From: hearst.acc.Virginia.EDU!cabell.vcu.edu!jwill@uunet.uu.net
Subject: Portable Packet Station with a HP 95LX ???
To: ham-digital@ucsd.edu

I use the HP95LX/KPC-3/Alinco DJ580t setup. What I did was to order
an "unterminated experimenters' cable" from Educalc for $16 and
directly soldered the leads to the underside of the KPC-3 board after
running the cable through a small hole and grommet in the lefthand
back corner of the case. It works nicely and is neat and compact.
Another Idea would be to buy the $50.00 Station95 docking station and
build the TNC into the case. I am currently working on this idea:
just looking for the right deal for a used Station95 and a beat-up HT
that I can strip from its case and build into a monolithic packet
station: just add 95LX.

                                        Robert S. Williams, MD

Date: Thu, 25 Nov 1993 15:57:35 GMT
From: ucsnews!sol.ctr.columbia.edu!spool.mu.edu!torn!nott!cunews!
freenet.carleton.ca!Freenet.carleton.ca!ad950@network.ucsd.edu
Subject: USA and NA
To: ham-digital@ucsd.edu

Brian,

  I guess that this is the convention that everybody agreed on and
that if we want a system that work, everybody should stand by it

Richard (VE2CH)
AD950@freenet.carleton.ca

Date: Thu, 25 Nov 1993 22:32:41 +0000
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!pipex!uknet!demon!
llondel.demon.co.uk!dave@network.ucsd.edu
Subject: W3IWI paper #4: Concerning continent designators

To: ham-digital@ucsd.edu

In article <19931125.111914.253@almaden.ibm.com> ENGE@almaden.ibm.com writes:
>Here is W3IWI,s original posting
>
[stuff deleted]
>Let me state at the outset that I'm not convinced that we need to use the
>continent field. It seems to me that the country field by itself is ade-
>quate and that the packet BBSes can easily keep track of all the countries
>in the world. Let me also state that many of the issues addressed here
>arise because of constant confusion between the functions of addressing
>and routing.
>
Some of us use continent designators because it makes things simpler.
All I need to know are the countries in EU (or should that be EURO?)
and the continent designators for everywhere else. Far easier than maintaining
a list of 300+ countries, although unfortunately it seems that most of the
'new' ones appearing at present are in EU and hence I have to know them
anyway :-(

Dave
--

****
* G4WRW @ GB7WRW.#41.GBR.EU AX25   *   Start at the beginning. Go on   *
* dave@llondel.demon.co.uk Internet *   until the end. Then stop.   *
* g4wrw@g4wrw.ampr.org   Amprnet   *   (the king to the white rabbit) *
****

Date: Sun, 28 Nov 93 16:57:58 GMT
From: swrinde!gatech!howland.reston.ans.net!pipex!uknet!uos-ee!ee.surrey.ac.uk!
M.Willis@network.ucsd.edu
To: ham-digital@ucsd.edu

References <1993Nov19.125524.28187@lmpsbbs.comm.mot.com>,
<mV0DDc5w165w@nj8j.atl.ga.us>, <KENJI.93Nov25154556@reseau.k2r.or.jp>
Subject : Re: Illegal Ham Radio - Internet gateway

Look all this 3rd party stuff. As far as we in Europe are concerned it is totally
illegal. I do not want any of my intermet mail to go to packet or I may end up in
trouble. It has already happened once.

The concept is great, we could really use it but it is against our (CEPT) law.
Therefore close these gateways or fix the problem by removing external links to
non 3rd party statesbefore it becomes necessary to take other (legal) steps to
protect our licences.

The whole 3rd party question is being looked at by our regulatory authority and we are
hopeful there may be positive changes, but not as yet, so don't mess it up.

Mike

Date: 25 Nov 93 22:23:18 EDT
From: hayes!bcoleman@uunet.uu.net
To: ham-digital@ucsd.edu

References <1993Nov21.135728.17393@ke4zv.atl.ga.us>, <arog.753911447@BIX.com>,
<1993Nov22.150859.22728@ke4zv.atl.ga.us>
Subject : Re: Max BAUD on 6M AM & FM

In article <1993Nov22.150859.22728@ke4zv.atl.ga.us>, gary@ke4zv.atl.ga.us (Gary
Coffman) writes:
> In article <arog.753911447@BIX.com> arog@BIX.com (arog on BIX) writes:
>>
>>Now, how high a bps rate can be fit in six kc ?
>
> That's a tough question.

Actually, it is an easy question. The answer is infinity.

Of course, this requires a SNR of infinity as well.

There is no simple practical answer to the question. The ability to transfer
information is limited by the product of bandwidth and signal to noise ratio.
I refer you to Dr. Shannon's papers on information theory.

--
Bill Coleman, AA4LR   ! CIS: 76067,2327   AppleLink: D1958
Principal Software Engineer   ! Packet Radio: AA4LR @ W4QO
Hayes Microcomputer Products, Inc. ! UUCP: uunet!hayes!bcoleman
POB 105203 Atlanta, GA 30348 USA   ! Internet: bcoleman%hayes@uunet.uu.net
Disclaimer: "My employer doesn't pay me to have opinions."
Quote: "The same light shines on vineyards that makes deserts." -Steve Hackett.

End of Ham-Digital Digest V93 #127
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